

LCD TV | PLASMA TV OWNER'S MANUAL

LCD TV MODELS

PLASMA TV MODELS

19LS4D*	42LG30**	42PG10**
22LS4D*	32LG50**	50PG10**
19LG30**	37LG50**	42PG20**
22LG30**	42LG50**	50PG20**
26LG30**	47LG50**	42PG30**
32LG30**	52LG50**	50PG30**
37LG30**		60PG30**

Please read this manual carefully before operating your TV.

Retain it for future reference.

Record model number and serial number of the TV. Refer to the label on the back cover and quote this information.

To your dealer when requiring service.



This feature is not available for all models. (Except for 19/22LS4D*)

Digital Video Broadcasting

ID

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996)

Number(s):	5499: 22LS4D-ZD	5507: 19LS4D-ZD
	5107: 42PG1000-ZA	5106: 50PG1000-ZA
	5107: 42PG2000-ZA	5106: 50PG2000-ZA
	5109: 42PG3000-ZA	5108: 50PG3000-ZA
	5498: 60PG3000-ZA	
	5088: 19LG3000-ZA	5090: 22LG3000-ZA
	5080: 26LG3000-ZA	5089: 32LG3000-ZA
	5087: 37LG3000-ZA	5086: 42LG3000-ZA
	5085: 32LG5000-ZA	5084: 37LG5000-ZA
	5083: 42LG5000-ZA	5082: 47LG5000-ZA
	5081: 52LG5000-ZA	5385: 52LG5010-ZD
	5386: 47LG5010-ZD	5387: 42LG5010-ZD
	5388: 37LG5010-ZD	5389: 32LG5010-ZD
	5390: 52LG5020-ZB	5391: 47LG5020-ZB
	5392: 42LG5020-ZB	5393: 37LG5020-ZB
	5394: 32LG5020-ZB	5395: 52LG5030-ZE
	5396: 47LG5030-ZE	5397: 42LG5030-ZE
	5398: 37LG5030-ZE	5399: 32LG5030-ZE

Downloaded From TV-Manual.com Manuals

ACCESSORIES

ACCESSORIES

Ensure that the following accessories are included with your TV. If an accessory is missing, please contact the dealer where you purchased the TV.

Image shown may differ from your TV.



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FRONT PANEL CONTROLS

- Image shown may differ from your TV.
- If your TV has a protection film attached, remove the film and then wipe the TV with a polishing cloth.

PLASMA TV Models : 42/50PG20**, 42/50/60PG30**



PLASMA TV Models : 42/50PG10**



LCD TV Models : 26/32/37/42LG30**, 32/37/42/47/52LG50**



Attaching the TV to a desk (Only 26/32/42LG30**, 32/42LG50**)

The TV must be attached to desk so it cannot be pulled in a forward/backward direction, potentially causing injury or damaging the product. Use only an attached screw.



WARNING

► To prevent TV from falling over, the TV should be securely attached to the floor/wall per installation instructions. Tipping, shaking, or rocking the machine may cause injury.

LCD TV Models : 19/22LG30**



LCD TV Models : 19/22LS4D*



BACK PANEL INFORMATION

Image shown may differ from your TV.

PLASMA TV Models : 42/50PG10**, 42/50PG20**, 42/50/60PG30**



- Power Cord Socket This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.
- RGB/DVI Audio Input Connect the audio from a PC or DTV.
- OPTICAL DIGITAL AUDIO OUT Connect digital audio from various types of equipment. Note: In standby mode, these ports do not work.
- Euro Scart Socket (AV1/AV2)
 Connect scart socket input or output from an external device to these jacks.
- HDMI Input Connect a HDMI signal to HDMI IN. Or DVI (VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.
- 6 RGB Input Connect the output from a PC.

- RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC.
- Component Input Connect a component video/audio device to these jacks.
- Antenna Input Connect RF antenna to this jack.
- PCMCIA (Personal Computer Memory Card International Association) Card Slot (This feature is not available in all countries.)
- SERVICE ONLY PORT
- Audio/Video Input (Except for 42/50PG10**)
 Connect audio/video output from an external device to these jacks.
 S-Video Input (Except for 42/50PG10**)
 Connect S-Video out from an S-VIDEO device.

PREPARATION



- 2 RGB/DVI Audio Input Connect the audio from a PC or DTV.
- B DIGITAL AUDIO OUT OPTICAL Connect digital audio from various types of equipment. Note: In standby mode, these ports do not work.
- 4 Euro Scart Socket (AV1/AV2) Connect scart socket input or output from an external device to these jacks.
- 6 HDMI Input Connect a HDMI signal to HDMI IN. Or DVI (VIDEO) signal to HDMI/DVI port with DVI to HDMI cable.
- 6 RGB Input Connect the output from a PC.
- RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC.

- Connect a component video/audio device to
- 9 Antenna Input Connect RF antenna to this jack.
- PCMCIA (Personal Computer Memory Card International Association) Card Slot (This feature is not available in all countries.)
- Audio/Video Input Connect audio/video output from an external device to these jacks. S-Video Input Connect S-Video out from an S-VIDEO device.
- Headphone Socket Connect the headphone plug to this socket.
- B SERVICE ONLY PORT

LCD TV Models : 19/22LS4D*



Power Cord Socket

This TV operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the TV on DC power.

2 HDMI Input

Connect a HDMI signal to HDMI IN. Or DVI(VIDEO)signal to HDMI/DVI port with DVI to HDMI cable.

- 3 RGB/DVI Audio Input Connect the audio from a PC or DTV.
- Antenna Input Connect RF antenna to this jack.
- PCMCIA (Personal Computer Memory Card International Association) Card Slot (This feature is not available in all countries.)

- 6 Euro Scart Socket (AV1/AV2) Connect scart socket input or output from an external device to these jacks.
- RS-232C IN (CONTROL & SERVICE) PORT Connect to the RS-232C port on a PC.
- Component Input Connect a component video/audio device to these jacks.
- Input Connect the output from a PC.
- SERVICE ONLY PORT

STAND INSTALLATION

(LCD TV Models: 26/32/37/42LG30**, 32/37/42LG50**)

- When assembling the desk type stand, check whether the bolt is fully tightened. (If not tightened fully, the product can tilt forward after the product installation.) If you tighten the bolt with excessive force, the bolt can deviate from abrasion of the tightening part of the bolt.
- 1 Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.





Assemble the parts of the **Stand Body** with the **Cover Base** of the TV.



Assemble the TV as shown.





Fix the 4 bolts securely using the holes in the back of the TV.



(Only 19/22LG30**)



Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.

Assemble the parts of the STAND BODY with COVER BASE of the TV. Insert the STAND BODY into a COVER BASE until clicking sound.



Assemble the TV as shown.

(Only 42PG10**, 42PG20**, 42PG30**)



STAND INSTALLATION (Only 19/22LS4D*)

Image shown may differ from your TV.

Carefully place the TV screen side down on a cushioned surface to protect the screen from damage.



Hold the **Hinge Body** and bend it upward.

E

Insert the **Stand Body** into the TV until clicking sound.





Assemble the parts of the **Stand Body** with the **Cover Base** of the TV.



Swivel Stand

Hinge Body

(Except for 19/22LS4D*, 50PG10**)

After installing the TV, you can adjust the TV manually to the left or right direction by 20 degrees to suit your viewing position.



DETACHING STAND (Only 19/22LS4D*)

Image shown may differ from your TV.



Place the tv with its front facing downward on a cushion or soft cloth.



Pull the Cover Base backward during pressing a button on the **Stand Body**.





Hold the **Cover Base** and pull with shake it backward to separate from the Stand Body.



Hold the **Stand Body** and bend it upward. Δ





5

Pull stand body to separate from the TV during pressing 2 latches.



PLEASE SET IT UP CAREFULLY SO THE PRODUCT DOES NOT FALL OVER.

- You should purchase necessary components to fix the TV to the wall on the market.
- Position the TV close to the wall to avoid the possibility of it falling when pushed.
- The instructions shown below are a safer way to set up the TV, which is to fix it to the wall, avoiding the possibility of it falling forwards if pulled. This will prevent the TV from falling forward and causing injury. This will also prevent the TV from damage. Ensure that children do not climb or hang from the TV.



Use the eye-bolts or TV brackets/bolts to fix the TV to the wall as shown in the picture. (If your TV has bolts in the eyebolts, loosen these bolts.)

* Insert the eye-bolts or TV brackets/bolts and tighten them securely in the upper holes.

Secure the wall brackets with the bolts on the wall. Match the height of the bracket that is mounted on the wall.



Use a sturdy rope to tie the TV. It is safer to tie the rope so it becomes horizontal between the wall and the TV.

NOTE

- ▶ When moving the TV undo the cords first.
- ▶ Use a platform or cabinet strong and large enough to support the size and weight of the TV.
- ▶ To use the TV safely make sure that the height of the bracket on the wall and on the TV is the same.

BACK COVER FOR WIRE ARRANGEMENT

PLASMA TV Models



Connect the cables as necessary.

To connect additional equipment, see the External Equipment Setup section.





Install the CABLE MANAGEMENT CLIP as shown. If your TV has the CABLE HOLDER, install it as shown and bundle the cables.





(Only 42/50PG20**, 42/50/60PG30**)



How to remove the cable management clip

Hold the **CABLE MANAGEMENT CLIP** with both hands and pull it upward.

* For the 42PG10** model, press the center of the CABLE MANAGEMENT CLIP and then lift up it.



(Only 42/50PG10**)



(Only 42/50PG20**, 42/50/60PG30**)

LCD TV Models: 26/32/37/42LG30** 32/37/42/47/52LG50**

Connect the cables as necessary.

To connect additional equipment, see the **External Equipment Setup** section of the manual.





Open the **CABLE MANAGEMENT CLIP** as shown and manage the cables.







LCD TV Models : 19/22LS4D*



Connect the cables as necessary.

To connect additional equipment, see the External Equipment Setup section.





Install the CABLE MANAGEMENT CLIP as shown.





How to remove the cable management clip (LCD TV Models : 19/22LS4D*)

First, press the cable management. Hold the CABLE MANAGEMENT CLIP with both hands and pull it upward.



NOTE

► Do not use the CABLE MANAGEMENT CLIP to lift the TV.

- If the TV is dropped, you may be injured or the TV may be damaged.

LCD TV Models : 19/22LG30**

Connect the cables as necessary.

To connect additional equipment, see the External Equipment Setup section of the manual.





Install the CABLE MANAGEMENT CLIP as shown.





How to remove the cable management clip

▶ Hold the CABLE MANAGEMENT CLIP with both hands and pull it backward.



NOTE

- ▶ Do not use the CABLE MANAGEMENT CLIP to lift the TV.
- If the TV is dropped, you may be injured or the TV may be damaged.

POSITIONING YOUR DISPLAY (Only 19/22LG30**, 19/22LS4D*)

- Image shown may differ from your TV.
- Adjust the position of the panel in various ways for maximum comfort.



LOCATION (Only 19/22LG30**, 19/22LS4D*)

Position your TV so that no bright light or sunlight falls directly onto the screen. Care should be taken not to expose the tv to any unnecessary vibration, moisture, dust or heat. Also ensure that the TV is placed in a position to allow a free flow of air. Do not cover the ventilation openings on the back cover.

If you intend to mount the TV to a wall, attach VESA standard mounting interface (optional parts) to the back of the TV.

When you install the TV to use the wall mounting bracket (optional parts), fix it carefully so as not to drop.

KENSINGTON SECURITY SYSTEM (Only 19/22LG30**, 19/22LS4D*)

The TV is equipped with a Kensington Security System connector on the back panel. Connect the Kensington Security System cable as shown below.

For the detailed installation and use of the Kensington Security System, refer to the user's guide provided with the Kensington Security System.

For further information, contact http://www.kensington.com, the internet homepage of the Kensington company. Kensington sells security systems for expensive electronic equipment such as notebook PCs and LCD projectors.

NOTE

- The Kensington Security System is an optional accessory.

NOTES

a. If the TV feels cold to the touch, there may be a small "flicker" when when it is turned on.

This is normal, there is nothing wrong with TV.

- b. Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the monitor's performance.
- c. Avoid touching the LCD screen or holding your finger(s) against it for long periods of time.
 Doing so may produce some temporary distortion effects on the screen.



- The TV can be installed in various ways such as on a wall, or on a desktop etc.
- The TV is designed to be mounted horizontally.

EARTHING

Ensure that you connect the earth wire to prevent possible electric shock. If grounding methods are not possible, have a qualified electrician install a separate circuit breaker.

Do not try to earth the TV by connecting it to telephone wires, lightening rods or gas pipes.



DESKTOP PEDESTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV.





WALL MOUNT: HORIZONTAL INSTALLATION

For adequate ventilation allow a clearance of 4" (10cm) all around the TV. We recommend that you use a wall mounting bracket of LG brand when mounting the TV to a wall.



To prevent damage do not connect to the mains outlet until all connections are made between the devices.

ANTENNA CONNECTION

For optimum picture quality, adjust antenna direction.

An antenna cable and converter are not supplied.





- In poor signal areas, to achieve better picture quality it may be necessary to install a signal amplifier to the antenna as shown above.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.

EXTERNAL EQIPMENT SETUP

EXTERNAL EQUIPMENT SETUP

- To avoid damaging any equipment, never plug in any power cords until you have finished connecting all equipment.
- This section on EXTERNAL EQUIPMENT SETUP mainly uses diagrams for the 22LS4D* models.

HD RECEIVER SETUP

This TV can receive Digital RF/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the diagram as shown below.

Connecting with a component cable

 Connect the video outputs (Y, PB, PR) of the digital set top box to the COMPONENT IN VIDEO jacks on the TV.
 Connect the audio output of the digital set-top box to the COMPONENT IN AUDIO jacks on the TV.
 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
 Select Component input source using the INPUT button on the remote control.

Signal	Component	HDMI
480i/576i	Yes	No
480p/576p	Yes	Yes
720p/1080i	Yes	Yes
1080p	Yes (50/60Hz)	Yes



Connecting a set-top box with an HDMI cable



Connect the HDMI output of the digital set-top box to the HDMI/DVI IN, HDMI/DVI IN 1, HDMI IN 2 or HDMI IN 3 jack on the TV.



Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)

Select HDMI/DVI, HDMI1, HDMI2 or HDMI3 input source using the INPUT button on the remote control.



EXTERNAL EQUIPMENT SETUP

Connecting with a HDMI to DVI cable

Connect the digital set-top box to HDMI/DVI IN, HDMI/DVI IN 1 (DVI) or HDMI/DVI IN 1 jack on the TV.

- Connect the audio output of the digital set-top box to the AUDIO IN (RGB/DVI) jack on the TV.
- **3** Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
- 4 Select HDMI/DVI or HDMI 1 input source using the INPUT button on the remote control.



DIGITAL AUDIO OUT SETUP

(Except for 19/22LS4D*)

- Sending the TV's audio signal to external audio equipment via the Digital Audio Output (Optical) port.



Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.



Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.



Set the "TV Speaker option - Off " in the AUDIO menu. (> p.80) Refer to the external audio equipment instruction manual for operation.

► Do not look into the optical output port. Looking at the laser beam may damage your vision.



1

2

DVD SETUP

When connecting with a component cable

1	Connect the video outputs (Y, PB, PR) of the DVD to the COMPONENT IN VIDEO jacks on the TV.
2	Connect the audio outputs of the DVD to the COMPONENT IN AUDIO jacks on the TV.
3	Turn on the DVD player, insert a DVD.
4	Select Component input source using the INPUT button on the remote control.
5	Refer to the DVD player's manual for operating instructions.

Component Input ports

To achieve better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	Рв	Pr
	Y	Рв	PR
Video output ports	Y	B-Y	R-Y
on DVD player	Y	СЬ	Cr
	Y	Pb	Pr

Connecting with a Euro Scart cable

Connect the Euro scart socket of the DVD to the AV1 Euro scart socket on the TV.

- Turn on the DVD player, insert a DVD.
- 3 Select AV1 input source using the INPUT button on the remote control.

If connected to AV2 Euro scart socket, select AV2 input source.

Refer to the DVD player's manual for operating instructions.

NOTE

1

► Any Euro scart cable used must be signal shielded.





EXTERNAL EQUIPMENT SETUP

Connecting with a S-Video cable

(Except for 19/22LS4D*, 42/50PG10**)





Connect the audio outputs of the DVD to the **AUDIO** input jacks on the TV.



Turn on the DVD player, insert a DVD.



Select **AV3** input source using the **INPUT** button on the remote control.



5)

Refer to the DVD player's manual for operating instructions.



Connecting the HDMI cable



3

Connect the HDMI output of the DVD to the HDMI/DVI IN, HDMI/DVI IN 1, HDMI IN 2 or HDMI IN 3 jack on the TV.

Select HDMI/DVI, HDMI1, HDMI2 or HDMI3 input source using the INPUT button on the remote control.

Refer to the DVD player's manual for operating instructions.



NOTE

- ► The TV can receive video and audio signals simultaneously when using a HDMI cable.
- If the DVD does not support Auto HDMI, you must set the output resolution appropriately.

VCR SETUP

- To avoid picture noise (interference), allow adequate distance between the VCR and TV.
- If 4:3 picture format is used for an extended period the fixed images on the sides of the screen may remain visible.

When connecting with a RF Cable



Connect the **ANT OUT** socket of the VCR to the **ANTENNA IN** socket on the TV.

Connect the antenna cable to the ANT IN socket of the VCR.

Press the **PLAY** button on the VCR and match the appropriate channel between the TV and VCR for viewing.

1

2

3

EXTERNAL EQUIPMENT SETUP

Connecting with a Euro Scart cable

1

Connect the Euro scart socket of the VCR to the **AV1** Euro scart socket on the TV.

2

Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)



Select **AV1** input source using the **INPUT** button on the remote control.



If connected to **AV2** Euro scart socket, select **AV2** input source.



NOTE

▶ Any Euro scart cable used must be signal shielded.

Connecting with a RCA cable

(Except for 19/22LS4D*, 42/50PG10**)

Connect the **AUDIO/VIDEO** jacks between TV and VCR. Match the jack colours (Video = yellow, Audio Left = white, and Audio Right = red)

2

1)

Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

Select **AV3** input source using the **INPUT** button on the remote control.

NOTE



► If you have a mono VCR, connect the audio cable from the VCR to the **AUDIO L/MONO** jack of the TV.

Connecting with a S-Video cable

(Except for 19/22LS4D*, 42/50PG10**)



Connect the audio outputs of the VCR to the AUDIO input jacks on the TV.



Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)

4

Select **AV3** input source using the **INPUT** button on the remote control.



NOTE

 If both S-VIDEO and VIDEO sockets have been connected to the S-VHS VCR simultaneously, only the S-VIDEO can be received.

OTHER A/V SOURCE SETUP

(Except for 19/22LS4D*, 42/50PG10**)



Connect the **AUDIO/VIDEO** jacks between TV and external equipment. Match the jack colours. (Video = yellow, Audio Left = white, and Audio Right = red)



Select **AV3** input source using the **INPUT** button on the remote control.

Operate the corresponding external equipment. Refer to external equipment operating guide.



EXTERNAL EQUIPMENT SETUP

INSERTION OF CI MODULE

- To view the encrypted (pay) services in digital TV mode.
- This feature is not available in all countries.



1)

Insert the CI Module to **PCMCIA** (Personal Computer Memory Card International Association) **CARD SLOT** of TV as shown.

For further information, see p.54.



PC SETUP

This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's settings.

Connecting with a D-sub 15 pin cable

Connect the RGB output of the PC to the **RGB IN** (PC) jack on the TV.

Connect the PC audio output to the **AUDIO IN** (**RGB/DVI**) jack on the TV.



4

1

(2)

Turn on the PC and the TV

Select **RGB** input source using the INPUT button on the remote control.



Connecting with a HDMI to DVI cable

Connect the DVI output of the PC to the HDMI/DVI IN, HDMI/DVI IN 1 (DVI) or HDMI/DVI IN 1 jack on the TV.



Connect the PC audio output to the **AUDIO IN** (**RGB/DVI**) jack on the TV.

Turn on the PC and the TV.

Select HDMI/DVI or HDMI 1 input source using the INPUT button on the remote control.



NOTE

- ► To enjoy vivid picture and sound, connect a PC to the TV.
- Avoid keeping a fixed image on the TV's screen for prolonged periods of time. The fixed image may become permanently imprinted on the screen; use a screen saver when possible.
- Connect the PC to the RGB (PC) or HDMI IN (or HDMI/DVI IN) port of the TV; change the resolution.
- There may be interference relating to resolution, vertical pattern, contrast or brightness in PC mode. Change the PC mode to another resolution or change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC graphic card.
- ► The synchronization input waveform for Horizontal and Vertical frequencies are separate.
- Connect the signal cable from the monitor output port of the PC to the RGB (PC) port of the TV or the signal cable from the HDMI output port of the PC to the HDMI IN (or HDMI/DVI IN) port on the TV.

- Connect the audio cable from the PC to the Audio input on the TV. (Audio cables are not included with the TV).
- ▶ If using a sound card, adjust PC sound as required.
- ► This TV uses a VESA Plug and Play Solution. The TV provides EDID data to the PC system with a DDC protocol. The PC adjusts automatically when using this TV.
- ► DDC protocol is preset for RGB (Analog RGB), HDMI (Digital RGB) mode.
- ► If required, adjust the settings for Plug and Play functionality.
- If the graphic card on the PC does not output analogue and digital RGB simultaneously, connect only one of either RGB or HDMI IN (or HDMI/DVI IN) to display the PC output on the TV.
- ► If the graphic card on the PC does output analogue and digital RGB simultaneously, switch the TV to either RGB or HDMI; (the other mode is set to Plug and Play automatically by the TV.)
- ► DOS mode may not work depending on the video card if you use a HDMI to DVI cable.
- If you use too long an RGB-PC cable, there may be interference on the screen. We recommend using under 5m of cable. This provides the best picture quality.

EXTERNAL EQUIPMENT SETUP

Supported Display Resolution (Only 19/22LS4D*)

RGB[PC], HDMI[PC] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)	
720x400	31.468	70.08	
640×480	31.469	59.94	
0402400	37.684	75.00	
800, 600	37.879	60.31	
800,000	46.875	75.00	
832x624	49.725	74.55	
	48.363	60.00	
1024x768	56.470	70.00	
	60.123	75.029	
1280x768	47.78	59.87	
1360x768	47.72	59.8	
1366x768	47.56	59.6	
1280x1024	63.595	60.0	
1440x900	55.5	59.90	Only 19LS4D*
1400x1050	64.744	59.948	Only 22154D+
1680x1050	65.16	59.94	

HDMI[DTV] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720-480	31.469	59.94
7202400	31.5	60
720x576	31.25	50
	37.500	50
1280x720	44.96	59.94
	45	60
	33.72	59.94
	33.75	60
	28.125	50.00
	26.97	23.97
10201090	27	24
1920x1080	33.716	29.976
	33.75	30.00
	56.250	50
	67.43	59.94
	67.5	60

Supported Display Resolution (Only 19/22/26/32/37/42LG30**, 32/37/42/47/52LG50**)

RGB[PC], HDMI[PC] mode

	Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)		Resolution
	720x400	31.468	70.08	_	720x480
	640,480	31.469	59.94	••	720x576
	0403460	37.684	75.00		1280,720
	800,400	37.879	60.31		1280x720
	800x000	46.875	75.00		
	832x624	49.725	74.55		
		48.363	60.00		1020, 1020
	1024x768	56.470	70.00		192021080
		60.123	75.029		
	1280x768	47.78	59.87		
	1360x768	47.72	59.8		
	1366x768	47.56	59.6		
(1440x900	55.5	59.90	● Only 19LG30+	*
/	1400x1050	64.744	59.948	- Only 221 C30	
(1680x1050	65.16	59.94		*
(1280x1024	63.595	60.0	● Only 19LG30+	*, 37/42/47/52LG50**
(1920x1080	66.647	59.988	— Only 37/42/4	7/52LG50**

HDMI[DTV] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x480	31.469 / 31.5	59.94 / 60
720x576	31.25	50
1280,720	37.500	50
1280x720	44.96 / 45	59.94 / 60
	33.72 / 33.75	59.94 / 60
	28.125	50.00
1020-1090	26.97 / 27	23.97 / 24
1920x1080	33.716 / 33.75	26.976 / 30.00
	56.250	50
	67.43 / 67.5	59.94 / 60

Supported Display Resolution (Only 42/50PG10**, 42/50PG20**, 42/50/60PG30**)

RGB[PC], HDMI[PC] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
720x400	31.468	70.08
640x480	31.469	59.94
800x600	37.879	60.31
1024x768	48.363	60.00
1280x768	47.78	59.87
1360x768	47.72	59.80
1920x1080	66.647	59.988

HDMI[DTV] mode

Resolution	Horizontal Frequency(kHz)	Vertical Frequency(Hz)
640-480	31.469	59.94
0403480	31.469	60.00
720-480	31.47	59.94
7203400	31.50	60.00
720x576	31.25	50.00
	37.50	50.00
1280x720	44.96	59.94
	45.00	60.00
	28.125	50.00
	33.72	59.94
	33.75	60.00
1020-1020	27.000	24.00
1920x1080	33.75	30
	56.25	50.00
	67.433	59.94
	67.50	60

EXTERNAL EQUIPMENT SETUP

Screen Setup for PC mode

Screen Reset

Returns to the default settings Position, Size and Phase at the factory.

This function works in the following mode : RGB[PC].

	PICTURE	 ↓ Move ● OK 	SCREEN	∢ Move RETURN Prev.	
	•	Contrast : 70	Resolution		
	•	Brightness : 50	Auto Config.		
0		Colour : 50	Position	To Set	
2	•	Tint : 0	Size		
	•	Advanced Control	Phase		
<u> </u>	Screen	Picture Reset	Thase		
(1)			O Reset		
		Select PICTURE.			
2 () ©		Select SCREEN.			
Ско		Select Reset .			
ОКО		Select Yes .			
5 Ок	Run Re	set.			

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

Adjustment for screen Position, Size, Phase

If the picture is not clear after auto adjustment and especially if characters are still trembling, adjust the picture phase manually.

This function works in the following mode : RGB[PC].

PICTURE	+ ↓ Move ● OK		SCREEN	◆ Move <u>RETURN</u> Prev.
3	• Contrast : 70		Resolution	
	• Brightness : 50		Auto Config	<u> </u>
	• Sharpness : 50		Auto Coning.	
\odot	• Colour : 50	\gg	Position ►	
2	• Tint : 0	L.	Size	
	Advanced Control			
	Picture Reset		Phase	
Screen	۲		O Reset	
$1 \longrightarrow $				



Select PICTURE.

Select SCREEN.

Select Position, Size or Phase.

Make appropriate adjustments.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

EXTERNAL EQUIPMENT SETUP

Selecting Resolution

To view a normal picture, match the resolution of RGB mode and selection of PC mode.

This function works in the following mode: RGB[PC] mode.

	PICTURE	∢ → Move ● OK		SCREEN	• ♦ Move RETURN Prev.	
		• Contrast : 70		Resolution	✓ 1024 x 768	
-1		Brightness : 50 Sharpness : 50		O Auto Config.	1280 x 768 1360 x 768	
0		• Colour : 50	\geq	Position	1366 x 768	- Except for PLASMA TV
$\underline{\Theta}$		Tint : 0 Advanced Control		Size		
1X		Picture Reset		Phase		
6	Screen	۲		O Reset		
						-



Select PICTURE.

Select SCREEN.

Select Resolution.

Select the desired resolution.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.
Auto Configure (RGB [PC] mode only)

Automatically adjusts picture position and minimizes image instability. After adjustment, if the image is still not correct, your TV is functioning properly but needs further adjustment.

Auto configure

This function is for automatic adjustment of the screen position, clock, and phase The displayed image will be unstable for a few seconds while the auto configuration is in progress.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

REMOTE CONTROL KEY FUNCTIONS (Only 19/22LS4D*)

When using the remote control, aim it at the remote control sensor on the TV.





TELETEXT These buttons are used for teletext.
 BUTTONS For further details, see the 'Teletext' section.

Coloured These buttons are used for teletext (on TELETEXT buttons models only) or **Programme edit**.

RATIO Selects your desired picture format.

SLEEP Sets the sleep timer.

SUBTITLE Recalls your preferred subtitle in digital mode.

Installing Batteries



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

(Only 42/50PG10**)





VOLUME UP /DOWN	Adjusts the volume.
FAV	Displays the selected favourite programme.
*	No function
MUTE	Switches the sound on or off.
Programme UP/DOWN	Selects a programme.
Coloured buttons	These buttons are used for teletext (on TELETEXT models only) or Programme edit .
SUBTITLE	Recalls your preferred subtitle in digital mode.
SIMPLINK control buttons	Controls simplink.

Installing Batteries



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

(Except for 19/22LS4D*, 42/50PG10**)





VOLUME UP /DOWN	Adjusts the volume.
FAV	Displays the selected favourite programme.
MUTE	Switches the sound on or off.
Programme UP/DOWN	Selects a programme.
PAGE UP/DOWN	Move from one full set of screen information to the next one.
0~9 number button	Selects a programme. Selects numbered items in a menu.
LIST	Displays the programme table.
Q.VIEW	Returns to the previously viewed programme.

SIMPLINK Controls simplink. control buttons

Installing Batteries



- Open the battery compartment cover on the back and install the batteries matching correct polarity (+with +,-with -).
- Install two 1.5V AAA batteries. Do not mix old or used batteries with new ones.
- Close cover.

TURNING ON THE TV

- When your TV is turned on, you will be able to use its features.

1

Firstly, connect the power cord correctly. At this stage, the TV switches to standby mode.



In standby mode to turn TV on, press the \bigcirc / I, INPUT or P $\land \lor$ (or PR $\blacktriangle \bigtriangledown$) button on the TV or press the POWER, INPUT, D/A, P $\land \lor$ (or (PR + - or P + -)) or NUMBER button on the remote control and the TV will switch on.

Initializing setup

If the OSD (On Screen Display) is displayed on the screen after turning on the TV, you can adjust the Language, Select Mode, Country, Time Zone, Auto programme tuning.

Note:

- a. It will automatically disappear after approx. 40 seconds unless a button is pressed.
- b. Press the **RETURN** button to change the current OSD to the previous OSD.
- c. For those countries without confirmed DTV broadcasting standards, some DTV features might not work, depending on the DTV broadcasting environment.
- d. "Home" mode is the optimal setting for home environments, and is the TV's default mode.
- e. "In Store" mode is the optimal setting for store environments." If a user modifies image quality data,
- "In Store" mode initializes the product to the image quality set by us after a certain period of time.
- f. The mode (Home, In Store) can be changed by executing Factory Reset in the OPTION menu.

PROGRAMME SELECTION

Press the P \land \lor (or (PR + - or P + -)) or NUMBER buttons to select a programme number.

VOLUME ADJUSTMENT

Press the VOL + - (or \checkmark + -) button to adjust the volume.

If you wish to switch the sound off, press the MUTE button.

You can cancel this function by pressing the MUTE, VOL + - (or \checkmark + -), or I/II button.

ON SCREEN MENUS SELECTION AND ADJUSTMENT

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.



Display each menu.

Select a menu item.

Move to the pop up menu.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

OK ⊙

OK ③

AUTO PROGRAMME TUNING

Use this to automatically find and store all available programmes.

When you start auto programming in digital mode, all previously stored service information will be deleted.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

MANUAL PROGRAMME TUNING (IN DIGITAL MODE)

Manual Tuning lets you manually add a programme to your programme list.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

MANUAL PROGRAMME TUNING (IN ANALOGUE MODE)

Manual Tuning lets you manually tune and arrange the stations in whatever order you desire.



• Press the MENU button to return to normal TV viewing.

• Press the **RETURN** button to move to the previous menu screen.

- Use NUMBER buttons to input a 4-digit password in Lock System 'On'.
- L: SECAM L/L' (France) BG: PAL B/G, SECAM B/G (Europe / East Europe / Asia / New Zealand / M.East / Africa / Australia)
 I: PAL I/II (U.K. / Ireland / Hong Kong / South Africa)
 DK: PAL D/K, SECAM D/K (East Europe / China / Africa / CIS)
- To store another channel, repeat steps 4 to 9.

■ Assigning a station name

You can assign a station name with five characters to each programme number.



■ Fine Tuning

Normally fine tuning is only necessary if reception is poor.



- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

PROGRAMME EDIT

When a programme number is skipped, it means that you will be unable to select it using P $\land \lor$ (or PR + / -) button during TV viewing.

If you wish to select the skipped programme, directly enter the programme number with the NUMBER buttons or select it in the Programme edit menu

This function enables you to skip the stored programmes.

In some countries it is possible to move a programme number by using the YELLOW button only.

~	SETUP	∢ * Move	۲	ОК
(Auto tuning			
	Manual tuning			
	Programme Ec	lit		۲
\odot	Booster	: On		
0	Software Updat	e : Off		
<u> </u>	Diagnostics			
X	CI Information			
B				



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

(IN DTV/RADIO MODE)

■ Skipping a programme number



Select a programme number to be skipped.

Turn the skipped programme number to blue.

Release the skipped programme.

- When a programme number is skipped it means that you will be unable to select it using the P $\land \lor$ (or PR + / -) button during normal TV viewing.
- If you wish to select a skipped programme, directly enter the programme number with the NUMBER buttons or select it in the programme edit or EPG.

■ Selecting favourite programme



Select your favourite programme number. • It will automatically include the selected programme into your favourite programme list.

IN TV MODE

This function enables you to delete or skip the stored programmes. You can also move some channels to other programme numbers.



BOOSTER (IN DIGITAL MODE ONLY)

If reception is poor, selectBooster to On. When the signal is strong, select "Off".



- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

SOFTWARE UPDATE

Software Update means software can be downloaded through the digital terrestrial broadcasting system.





* When setting "Software Update"

Occasionally, a transmission of updated digital software information will result in the following menu on the TV screen.



When the Software Update menu is "Off", the message to change it to "On" appears.

Select the **YES** using the < > button and you will see the following picture.

After the Software Update is complete, the System restarts.



When the power is turned off, downloading starts.

When the power is turned on while updating, the progress status is displayed.



- During Progress of a Software Update, please note the following:

- Power to the TV must not be interrupted.
- The TV must not be switched off.
- The antenna must not be disconnected.
- After Software Update, you can confirm the updated software version in Diagnostics menu.

DIAGNOSTICS (IN DIGITAL MODE ONLY)

This function enables you to view information on the Manufacturer, Model/Type, Serial Number and Software Version.

This displays the information and signal strength of the tuned MUX. This displays the signal information and service name of the selected MUX.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

CI [COMMON INTERFACE] INFORMATION

This function enables you to watch some encrypted services (pay services). If you remove the CI Module, you cannot watch pay services.

When the module is inserted into the CI slot, you can access the module menu.

To purchase a module and smart card, contact your dealer. Do not repeatedly insert or remove a CAM module from the TV. This may cause a malfunction. When the TV is turned on after inserting a CI Module, you may not have any sound output.

This may be incompatible with the CI module and smart card.

CI (Common Interface) functions may not be possible depending upon the country broadcasting circumstances.





- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SELECTING THE PROGRAMME TABLE

You can check which programmes are stored in the memory by displaying the programme table.





Display the Favourite Programme table.

(Except for 19/22LS4D*, 42/50PG10**)

This function operates only with devices with the SIMPLINK logo. Please check the SIMPLINK logo.

This TV might not function properly when using it with other products with HDMI-CEC function.

This allows you to control and play other AV devices connected to the display through HDMI cable without additional cables and settings.

If you do not want SIMPLINK menu, select "Off".

SIMPLINK function is not supported by HDMI IN 3 input.



NOTE

- Connect the HDMI/DVI IN or HDMI IN terminal of the TV to the rear terminal (HDMI terminal) of the SIMPLINK device with the HDMI cable.
- ► After connecting the HDMI terminal for the home theatre with the SIMPLINK function using the above method, connect the DIGITAL AUDIO OUT terminal on the back of the TV to the DIGITAL AUDIO IN terminal on the back of the SIMPLINK device with the OPTICAL cable.
- ▶ When operating an external device with SIMPLINK, press the TV button from the MODE buttons on the remote control.
- When you switch the Input source using the INPUT button on the remote control, you can stop the operation of a device controlled by SIMPLINK
- ▶ When you select or operate a media device with home theater function, the speaker automatically switches to home theater speaker (HT speaker).

SIMPLINK Functions

Disc playback

Control connected AV devices by pressing the $\land \lor \land \lor$, OK, \blacktriangleright , \blacksquare , II, $\blacktriangleleft \triangleleft$ and $\triangleright \triangleright$ buttons.(The \bullet button does not provide such functions.)

Direct Play

After connecting AV devices to the TV, you can directly control the devices and play media without additional settings.

Select AV device

Enables you to select one of the AV devices connected to the TV and operate it.

Power off all devices

When you switch off the TV, all connected devices are turned off.

Switch audio-out Offers an easy way to switch audio-out.

Sync Power on

When you play the connected AV device, TV will automatically turn on.

* A device, which is connected to the TV through a HDMI cable but does not support SIMPLINK, does not provide this function.

SIMPLINK Menu

Press the $\land \lor \lt \Rightarrow$ button and then **OK** button to select the desired SIMPLINK source.

- **TV viewing :** Switch to the previous TV programme regardless of the current mode.
- OISC playback : Select and play connected discs. When multiple discs are available, the titles of discs are conveniently displayed at the bottom of the screen.
- **WCR playback :** Play and control the connected VCR.
- Audio Out to Home theater/Audio Out to TV: Select Home theater or TV speaker for Audio Out.
 - Home theater: Only one supported at once
 - DVD, Recorder: Up to three supported at
 - VCR: Only one supported at once



INPUT LABEL

Selects a label for each input source.

3

Ø

PTION			OPTION 💠	Move •	ОК
lenu Language : English			Menu Language : E	English	AV1
udio Language : English	1		Audio Language : E	English	AV2 AV3
Subtitle Language : English		H	Subtitle Language : E	English	Componer
Hard of Hearing(D) Off	\geq	Q	Hard of Hearing()	Off	RGB
Country :UK		$\underline{\Theta}$	Country :U	IK	HDMI1
Input Label		â	Input Label	2	HDMI2
Silvir Link : Off		A	Keylock : (HDMI3
V LOCK . OII		(1)	Key Lock . (



Select the label.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

AV MODE

You can select the optimal images and sounds when connecting AV devices to external input.



EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

This system has an Electronic Programme Guide (EPG) to help your navigation through all the possible viewing options.

The EPG supplies information such as programme listings, start and end times for all available services. In addition, detailed information about the programme is often available in the EPG (the availability and amount of these programme details will vary, depending on the particular broadcaster).

This function can be used only when the EPG information is broadcasted by broadcasting companies.

The EPG displays the programme description for next 8 days.

Switch on/off EPG



Switch on or off EPG.

🗰 1 YLE TV1	^	06 M	ar. 2006 15:09						
411	06	Mar.							
	14:00	15:00							
🛎 1 YLE TV1	No Information		Kungskonsumente						
d箇 2 YLE TV2	No Information	TV2: Farmen	No Information						
d i 4 TV	No Info	No Information							
di 5 YLE FST	No Info	No Information							
🛎 6 CNN	No Info	rmation							
∎a 8 YLE24	No Information	Tänään	otsikoissa						
			<u> </u>						
TV/RAD Radio	FAV Favourite INFO	Inforrmation	Pr. Change						

Select a programme



Select desired programme.



Display the selected programme.

Button Function in NOW/NEXT Guide Mode



Button Function in 8 Day Guide Mode



Button Function in Date Change Mode



Switch off Date setting mode.

Change to the selected date.

Select a date.



EPG (ELECTRONIC PROGRAMME GUIDE) (IN DIGITAL MODE)

Button Function in Extended Description Box



Text Up/Down.

Enter Timer Record/Remind setting mode.



Button Function in Record/Remind Setting Mode

- This function is available only when recording equipment that use pin8 recording signalling has been connected to the DTV-OUT terminal, using a SCART cable.
- Two hours after the TV is switched on by the Remind function it will automatically switch back to standby mode unless a button has been pressed.



Change to Guide or Timer list mode.

Save Timer Record/Remind.



Select Type, Service, Date or Start/End time.

Function setting.

Button Function in Schedule List Mode



Add new Manual Timer setting mode.

Enter Schedule list editing mode.

Delete the selected item.



Change to Guide mode.

Select Schedule list.

PICTURE CONTROL

PICTURE CONTROL

PICTURE SIZE (ASPECT RATIO) CONTROL

You can watch the screen in various picture formats; 16:9, Just Scan, Original, 4:3, 14:9 and Zoom1/2.

If a fixed image is displayed on the screen for a long time, that fixed image may become imprinted on the screen and remain visible.

You can adjust the enlarge proportion using $~\wedge~\vee~$ button.

This function works in the following signal.



Select the desired picture format.

- You can also adjust **Aspect Ratio** in the **PICTURE** or **Q.MENU** menu.
- For Zoom Setting, select **14:9**, **Zoom1** and **Zoom2** in Ratio Menu. After completing Zoom Setting, the display goes back to **Q.MENU**.

• 16:9

The following selection will allow you to adjust the picture horizontally, in linear proportion, to fill the entire screen(useful for viewing 4:3 formatted DVDs).



• 4:3

The following selection will allow you to view a picture with an original 4:3 aspect ration, grey bars will appear on both the left and right of the screen.



PICTURE CONTROL

• Original

When your TV receives a wide screen signal it will automatically change to the picture format broadcast.



• 14:9

You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is magnified to the left and right.



• Zoom1

The following selection will allow you to view the picture without any alteration, while filling the entire screen. However, the top and bottom of the picture will be cropped.



• Zoom2

Choose Zoom 2 when you wish the picture to be altered, both horizontally extended and vertically cropped. The picture adopting a compromise between alteration and screen coverage.



• Just Scan

Following Selection will lead to you view the picture of best quality without loss of original picture in high resolution image.

Note: If there are interference in original picture, you can view interference at the edge.



NOTE

- ▶ You can only select 16:9 (Wide), 4:3, 14:9, Zoom 1/2 in Component (under 720p) mode.
- > You can only select 4:3, 16:9 (Wide) in RGB/HDMI[PC] mode only.
- ▶ In HDMI/Component (over 720p) mode, Just Scan is available.
- ▶ You can only select Original in UK digital teletext (MHEG-5).

PRESET PICTURE SETTINGS

Picture Mode-Preset

- ▶ It is possible to use Intelligent Sensor in 32/37/42/47/52LG50** models only.
- ► In PLASMA TV models, **Backlight** will not be displayed.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PICTURE CONTROL

Auto Colour Tone Control (Warm/Medium/Cool)

Choose one of three automatic colour adjustments. Set to warm to enhance hotter colours such as red, or set to cool to see less intense colours with more blue.

MENU

	PICTURE		م م Move ⊛ OK			PICTURE		¢	Move OK	
	Picture Mode	: Vivid				Picture Mode	: Vivid		Colour Temperature	◄ Cool ►
		 Backlight 	100				 Backlight 	100	Fresh Contrast	High
		 Contrast 	100				 Contrast 	100	Fresh Colour	High
\odot		 Brightness 	50	\gg	\odot		 Brightness 	50	Noise Reduction	Medium
		 Sharpness 	70				 Sharpness 	70	Gamma	Medium
		Colour	70				Colour	70	Black Level	High
		• Tint			Ē		• Tint	0	Eye Care	Off
B		• Advanced Cor	ntrol ©		B		• Advanced Co	ontrol	Film Mode	Off
0		▼					▼		(Close

Select **PICTURE**.

Select Advanced Control.

Select Colour Temperature.

Select either Cool, Medium or Warm.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

MANUAL PICTURE ADJUSTMENT

Picture Mode-User option

- ▶ It is possible to use Intelligent Sensor in 32/37/42/47/52LG50** models only.
- ► In PLASMA TV models, **Backlight** will not be displayed.



Select PICTURE. Select Picture Mode. Select desired picture value.

Tint.

Select Backlight (LCD TV Only), Contrast, Brightness, Sharpness, Clolour or

Make appropriate adjustments.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

MENU

OK ③

OK ③

OK ③

▶ You can not adjust colour, sharpness and tint in the RGB-PC mode.

PICTURE CONTROL

Picture Mode-Expert Control

By segmenting categories, Expert1 and Expert2 provide more categories which users can set as they see fit, offering the optimal picture quality for users.

	PICTURE	•	Move OK	PICTURE		۹. ♦ Move ●	ОК
	Aspect Ratio : 1 Picture Mode : E	6:9 Expert1 • Backlight 100 • Contrast 100 • Brightness 50 • Sharpness 70 • Colour 70 • Tint 0	Intelligent Sensor Vivid Standard Cinema Sport Game Expert1 (© Expert2		 Backlight Contrast Brightness Sharpness Colour Tint Expert Control Picture Reset 	Fresh Contrast Noise Reduction Gamma Black Level Film Mode Colour Standard White Balance • Red Contrast	 ♦ Off Øff Medium High Øn SD Warm 0 Uarm Close
		Select PICTU	IRE.				
2 Ок		Select Pictur	e Mode.				
Ско		Select Expert	1 or Expert2.				
ОК		Select Expert	Control.				
ОКО		Select your d	esired Source.				
5	Make	appropriate adj	ustments.				

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PICTURE IMPROVEMENT TECHNOLOGY

Fresh Contrast

Optimizes the contrast automatically according to the brightness of the reflection.

Fresh Colour

Adjusts the colour of the reflection automatically to reproduce as close as possible natural colours.

Noise Reduction

Removes interference up to the point where it does not damage the original picture.

Gamma

High gamma values display whitish images and low gamma values display high contrast images.





- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

PICTURE CONTROL

ADVANCED - FILM MODE

To set the TV up for the best picture quality for viewing films.

This feature operates only in TV, AV and Component 480i/576i/1080i mode.

	PICTURE		∢ ‡► Move	● OK			PICTURE		¢	Move OK	
	Picture Mode : V	/ivid					Picture Mode	: Vivid		Colour Temperature	Cool
	•	Backlight	100					 Backlight 	100	Fresh Contrast	High
	•	Contrast	100					 Contrast 	100	Fresh Colour	High
\odot	•	Brightness	50		\gg	\odot		 Brightness 	50	Noise Reduction	Medium
	•	Sharpness	70					 Sharpness 	70	Gamma	Medium
0		Colour	70					Colour	70	Black Level	High
	•	Tint	0 RIIIIII					• Tint	0	Eye Care	Off
A	•	Advanced Cont	trol	0		A		• Advanced Co	ntrol	Film Mode	 Off ►
(1)		•				1		•			lose



Select PICTURE.

Select Advanced Control.

Select Film Mode.

Select On or Off.

• Press the MENU button to return to normal TV viewing.

• Press the **RETURN** button to move to the previous menu screen.
ADVANCED - BLACK (DARKNESS) LEVEL

When you view a film this function adjusts the TV to best picture quality.

This function works in the following mode: AV (NTSC-M), HDMI or Component.



Select Advanced Control.

Sele

Select Black Level.

Select Low or High.

- **High** : The reflection of the screen gets brighter.
- Auto : Realizing the black level of the screen and set it to High or Low automatically.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

PICTURE CONTROL

EYE CARE (LCD TV ONLY)

It helps you adjust brightness when the screen is too bright to prevent dazzling.

	PICTURE		<∲ Move ⊚ OK			PICTURE		¢	• Move ⊛ OK	
	Picture Mode : Vivid	A				Picture Mode	: Vivid		Colour Temperature	Cool
	• Backli	ght 10					 Backlight 	100	Fresh Contrast	High
	Contr	ast 10					 Contrast 	100	Fresh Colour	High
\odot	• Bright	ness 50		\gg	\odot		 Brightness 	50	Noise Reduction	Medium
	• Sharp	ness 70					 Sharpness 	70	Gamma	Medium
	Colou	r 70					Colour	70	Black Level	High
	• Tint	0	RIIIIIIIII IIIIIIIIG				• Tint	0	Eye Care	 Off ►
A	• Advar	ced Control	۲		a		• Advanced Co	ontrol	Film Mode	Off
U		•					•			Close



Select PICTURE.

Select Advanced Control.

Select Eye Care.

Select On or Off.

• Press the MENU button to return to normal TV viewing.

• Press the **RETURN** button to move to the previous menu screen.

PICTURE RESET

Settings of the selected picture modes return to the default factory settings.





Select PICTURE.

Select Picture Reset.

Initialize the adjusted value.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PICTURE CONTROL

IMAGE STICKING MINIMIZATION (ISM) METHOD

(PLASMA TV ONLY)

A frozen or still picture from a PC/Video game displayed on the screen for prolonged periods will result in a ghost image remaining even when you change the image. Avoid allowing a fixed image to remain on the screen for prolonged periods.

White wash

White wash removes permanent images from the screen.

Note: An excessive permanent image may be impossible to clear entirely with White Wash.

Orbiter

Orbiter may help prevent ghost images. However, it is best not to allow any fixed image to remain on the screen. To avoid a permanent image on the screen, the screen will move every 2 minutes.

Inversion

This function inverts the panel colour of the screen. The panel colour is automatically inverted every 30 minutes.





• If you do not need this function, set Normal.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

POWER SAVING PICTURE MODE (PLASMA TV ONLY)

This function allows you to reduce the power consumption of the TV.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

► In 19/22LS4D* Models, TV Speaker will not be displayed.

AUTO VOLUME LEVELER

AVL automatically remains on the same level of volume if you change programmes.

♦ Move ● OK

- 1111111

- ||||||||

0

0

0

0

0

0



OK • Select AUDIO.

Select Auto Volume.

Select On or Off.

• Press the MENU button to return to normal TV viewing.

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AUDIO

Balance

Sound Mode

Auto Volume : Off

: Standard

• 120Hz

• 200Hz

• 500Hz

• 1.2KHz

• 3KHz

▲ Move ● OK

Off

On

-

0

0

0

0

- 11111111 || 11111111+

- ||||||||||

| ||||||||+

0

• Press the RETURN button to move to the previous menu screen.

PRESET SOUND SETTINGS-SOUND MODE

You can select your preferred sound setting; SRS TruSurround XT or (SRS TruSurround HD (32/37/42/47/52LG5010 Only)), Clear Voice, Standard, Music, Cinema, Sport or Game and you can also adjust the frequency of the equalizer.

Sound Mode lets you enjoy the best sound without any Special adjustment as the TV sets the appropriate sound options based on the programme content.

SRS TruSurround XT or (SRS TruSurround HD (32/37/42/47/52LG5010 Only)), Clear Voice, Standard, Music, Cinema, Sport and Game are preset for optimum sound quality at the factory.



• Press the **MENU** button to return to normal TV viewing.

• Press the RETURN button to move to the previous menu screen.

SRS() and **SRS()** are a trademark of SRS Labs, Inc.

▶ TruSurround XT and TruSurround HD technology is incorporated under license from SRS Labs, Inc.

▶

SOUND & LANGUAGE CONTROL

SOUND SETTING ADJUSTMENT - USER MODE

Adjusting the audio equalizer.





Select AUDIO.

Select Sound Mode.

Select SRS TruSurround XT or (SRS TruSurround HD (32/37/42/47/52LG5010 Only)), Clear Voice, Standard, Music, Cinema, Sport or Game.

Select a frequency band.

Set the desired sound level.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

BALANCE

You can adjust the sound balance of the speakers to preferred levels.





Select AUDIO.

Select Balance.

Make desired adjustment.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

TV SPEAKERS ON/ OFF SETUP

(Except for 19/22LS4D*)

You can adjust the internal speaker status.

In AV, COMPONENT, RGB and HDMI1 with HDMI to DVI cable, the TV speaker can be operational even when there is no video signal.

If you wish to use an external Hi-Fi system, turn off the TV internal speakers.

AUDIO		4 Move ⊛ OK		\bigcirc	AUDIO		ψ	Move OK	
	• 500Hz	0 -		(• 500Hz	0	- +	
	• 1.2KHz	0 -				• 1.2KHz	0		
	• 3KHz	0 -		· ~		• 3KHz	0	- +	
	• 7.5KHz	0 -	\geq	0		• 7.5KHz	0	- 11111111 111111111+	
2	• 12KHz	0 -		9		• 12KHz	0	- 11111111 111111111+	
	• Reset				e de la companya de la	• Reset			
Digital Audio Out	: PCM				Digital Audio Out	: PCM			
TV Speaker	: Off	٥		3	TV Speaker	: Off		Off	\odot
								On	
MENU Select AUDIO.									
	Select TV	Speaker.							

Select On or Off.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

SELECTING DIGITAL AUDIO OUT

This function allows you to select your preferred Digital Audio Output.

The TV can only output DOLBY Digital if a channel is broadcast with Dolby Digital audio.

When Dolby digital is available, selecting Dolby Digital in the Digital Audio Out menu will set SPDIF output to Dolby Digital

If Dolby Digital is selected in the digital audio out menu when dolby digital is not available, SPDIF output will be PCM.

Even if both Dolby Digital and Audio language have been set in a channel which broadcast Dolby Digital Audio, only Dolby Digital will be played.





Select AUDIO.

Select Digital Audio Out.

Select **Dolby Digital** or **PCM**.

Manufactured under license from Dolby Laboratories. "Dolby "and the double-D symbol are trademarks of Dolby Laboratories.

• There is a possibility that when HDMI mode, some DVD players do not make SPDIF sound. At that time, set the output of the digital audio of the DVD player to PCM.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

SOUND & LANGUAGE CONTROL

AUDIO RESET

Settings of the selected Sound Mode return to the default factory settings.



- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

I/II Stereo/Dual Reception (In Analogue Mode Only)

When a programme is selected, the sound information for the station appears after the programme number and station name disappear.



Broadcast	On Screen Display
Mono	MONO
Stereo	STEREO
Dual	DUAL I, DUAL II, DUAL I+II

Mono sound selection

If the stereo signal is weak in stereo reception, you can switch to mono. In mono reception, the clarity of sound is improved.

Language selection for dual language broadcast

If a programme can be received in two languages (dual language), you can switch to DUAL I, DUAL II or DUAL I+II.

- DUAL I Sends the primary broadcast language to the loudspeakers.
- DUAL II Sends the secondary broadcast language to the loudspeakers.
- DUAL I+II Sends a separate language to each loudspeaker.

SOUND & LANGUAGE CONTROL

NICAM Reception (In Analogue Mode Only)

If the TV is equipped with a receiver for NICAM reception, high quality NICAM (Near Instantaneous Companding Audio Multiplex) digital sound can be received.

Sound output can be selected according to the type of broadcast received.



When NICAM mono is received, you can select NICAM MONO or FM MONO.



When **NICAM stereo** is received, you can select **NICAM STEREO** or **FM MONO**. If the stereo signal is weak, switch to **FM mono**.



When **NICAM dual** is received, you can select **NICAM DUAL I**, **NICAM DUAL II** or **NICAM DUAL I+II** or **FM MONO**.

Speaker Sound Output Selection

In AV, Component, RGB and HDMI mode, you can select output sound for the left and right loudspeakers.

Select the sound output.

- L+R: Audio signal from audio L input is sent to the left loudspeaker and audio signal from audio R input is sent to the right loudspeaker.
- L+L: Audio signal from audio L input is sent to left and right loudspeakers.
- R+R: Audio signal from audio R input is sent to left and right loudspeakers.

ON-SCREEN MENU LANGUAGE / COUNTRY SELECTION

Select your desired language.

The installation guide menu appears on the TV screen when it is switched on for the first time.



Select your country.

* If you want to change Language/ Country selection



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

NOTE

- If you do not finish the set-up Installation Guide by pressing RETURN or if you time out on the OSD (On Screen Display) the installation menu will continuously appear until the set up is completed whenever the TV is switched on
- If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.
- ▶ The CI (Common Interface) function may not be applied based on country broadcasting circumstances.
- ▶ DTV mode control buttons may not function based on country broadcasting circumstances.
- In country that Digital broadcasting regulation isn't fixed, some DTV function may not work depending on digital broadcasting circumstances.

SOUND & LANGUAGE CONTROL

LANGUAGE SELECTION (IN DIGITAL MODE ONLY)

The Audio function allows selection of a preferred language. If audio data in a selected language is not broadcast, the default language audio will be played.

Use the Subtitle function when two or more subtitle languages are broadcast. If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

When the languages you selected as the primary for Audio Language and Subtitle Language are not supported, you can select language in secondary category.



• Press the **RETURN** button to move to the previous menu screen.

ABC

< Audio Language Selection >

When two or more audio languages are broadcast, you can select the audio language.

Audio Language OSD Information					
Display	Status				
N.A	Not Available				
MPEG MPEG Audio					
			20	Audio for "Visual Impaired"	
ABC	Audio for "Hearing Impaired"				

< Subtitle	Language Se	election >
------------	-------------	------------

- When two or more subtitle languages are broadcast, you can select the subtitle language with the SUBTITLE button on the remote control.
- Subtitle Language OSD Information

 Display
 Status

 N.A
 Not Available

 Teletext Subtitle

Subtitle for "Hard of Hearing"

 \blacktriangleright Press the $~\wedge~\lor~$ button to select a subtitle language.

- The audio/subtitles can be displayed in a simpler form with 1 to 3 characters broadcast by the service provider.

- When you select supplementary Audio (Audio for "Visual/Hearing Impaired") the TV may output a part of the Main audio.

TIME SETTING

CLOCK SETUP

The clock is set automatically when receiving a digital signal. (You can set the clock manually only if the TV has no DTV signal.)

You must set the time correctly before using on/off timer function.



- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

TIME SETTING

AUTO ON/OFF TIMER SETTING

The Off time function automatically switches the TV to standby at a preset time. Two hours after the TV is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

The Off time function overrides the On timer function if both are set to the same time. The TV must be in standby mode for the On timer to work.



- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

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AUTO SHUT-OFF SETTING

If the TV is switched on and there is no input signal, it will switch off automatically after 10 minutes.

Y Y TIME TIME <.p>♦ Move ● OK • Move ⊚ OK Clock Clock Off Time Off Time : Off : Off : Off On Time On Time : Off \odot Sleep Timer : Off \gg Sleep Timer : Off Off Auto Sleep : Off Auto Sleep : Off \odot On Time Zone : Canary GMT Time Zone : Canary Ē MENU Select TIME. OK () Select Auto Sleep. Select Off or On.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TIME SETTING

TIME ZONE SETUP

When you select a Time Zone city, the TV time is set by the time offset information based on Time Zone and GMT (Greenwich Mean Time) which is received with the broadcast signal and the time is set automatically by a digital signal.



SLEEP TIMER SETTING

You do not have to remember to switch the TV off before you go to sleep. The sleep timer automatically switches the TV to standby after the preset time has elapsed.



• When you switch the TV off, the preset sleep time is cancelled.

• You can also adjust Sleep Timer in the TIME menu.

PARENTAL CONTROL / RATINGS

SET PASSWORD & LOCK SYSTEM

Enter the password, press '0', '0', '0', '0' on the remote control handset.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

PARENTAL CONTROL / RATINGS

BLOCK PROGRAMME

Blocks any programmes that you do not want to watch or that you do not want your children to watch.

It is available to use this function in Lock System "On".



Select a programme to be locked.

- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

GREEN

PARENTAL CONTROL (IN DIGITAL MODE ONLY)

This function operates according to information from the broadcasting station. Therefore if the signal has incorrect information, this function does not operate.

A password is required to gain access to this menu.

This TV is programmed to remember which option it was last set to even if you switch the TV off.

Prevents children from watching certain adult's TV programmes, according to the ratings limit set.





Select LOCK.

Select Parental Guidance.

Make appropriate adjustments.

• Press the MENU button to return to normal TV viewing.

• Press the **RETURN** button to move to the previous menu screen.

PARENTAL CONTROL / RATINGS

KEY LOCK

The TV can be set so that the remote control is required to control it. This feature can be used to prevent unauthorized viewing.



- Press the MENU button to return to normal TV viewing.
- Press the **RETURN** button to move to the previous menu screen.

TELETEXT

This feature is not available in all countries.

Teletext is a free service broadcast by most TV stations which gives up-to-the-minute information on news, weather, television programmes, share prices and many other topics.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems. SIMPLE (standard teletext) consists of a number of pages which are selected by directly entering the corresponding page number. TOP and FASTEXT are more modern methods allowing quick and easy selection of teletext information.

SWITCH ON/OFF

Press the **TEXT** button to switch to teletext. The initial page or last page viewed appears on the screen. Two page numbers, TV station name, date and time are displayed on the screen headline. The first page number indicates your selection, while the second shows the current page displayed. Press the **TEXT** button to switch off teletext. The previous mode reappears.

SIMPLE TEXT

Page selection

Enter the desired page number as a three digit number with the NUMBER buttons. If during selection you press a wrong number, you must complete the three digit number and then re-enter the correct page number.
 The P ^ V (or (PR + - or P + -)) button can be used to select the preceding or following page.

TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

Block / group / page selection

- With the blue button you can progress from block to block.
- ² Use the yellow button to proceed to the next group with automatic overflow to the next block.
- With the green button you can proceed to the next existing page with automatic overflow to the next group. Alternatively the P ^ (or PR +) button can be used.
- \blacksquare The red button returns to the previous selection. Alternatively the P \vee (or PR -) button can be used.

Direct page selection

As with SIMPLE teletext mode, you can select a page by entering it as a three digit number using the NUMBER buttons in TOP mode.

TELETEXT

FASTEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

Page selection

- Press the **T.OPT** button and then use ∧ ∨ button to select Ei menu. Display the index page. (In 19/22LS4D*, press the Ei button to select the index menu.)
- **2** You can select the pages which are colour coded along the bottom line with corresponding coloured buttons.
- 3 AS with SIMPLE teletext mode, you can select a page by entering its three digit page number with the NUMBER buttons in FASTEXT mode.
- The P $\wedge \vee$ (or (PR + or P + -)) button can be used to select the preceding or following page.

SPECIAL TELETEXT FUNCTIONS

= Press the **T**. **OPT** button and then use $\land \lor$ button to select the **Text Option** menu.



REVEAL

Select this menu to display concealed information, such as solutions to riddles or puzzles.

EXI	ΕX
-----	----

UPDATE

Displays the TV picture on the screen while waiting for a new teletext page. The display will appear at the top left hand corner of the screen. When the updated page is available then display will change to the page number. Select this menu again to view the updated teletext page.



TIME

When viewing a TV programme, Select this menu to display the time at the top right hand corner of the screen. In the teletext mode, press this button to select a sub page number. The sub page number is displayed at the bottom of the screen. To hold or change the sub page, press the RED/GREEN, < > or NUMBER buttons.



HOLD

Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages. The number of sub pages and the sub page displayed is, usually, shown on the screen below the time. When this menu is selected the stop symbol is displayed at the top left-hand corner of the screen and the automatic page change is inactive.

DIGITAL TELETEXT

*This function works in UK only.

The TV gives you access to digital teletext which is greatly improved in various aspects such as text, graphics etc. This digital teletext can access special digital teletext services and specific services which broadcast digital teletext.

You should select off in the subtitle language menu to display teletext by pressing the SUBTITLE button.

TELETEXT WITHIN DIGITAL SERVICE

- Press the numeric or $P \land \lor$ (or (PR + or P + -)) button to select a digital service which broadcasts digital teletext. To know which are digital teletext services, refer to the EPG service list.
- 2

Follow the indications on digital teletext and move onto the next step by pressing TEXT, OK, $\land \lor \lt >$, RED, GREEN, YELLOW, BLUE or NUMBER buttons and etc..

To change digital teletext service, select a different service by the numeric or P $\land \lor$ (or (PR + - or P + -)) button.



TELETEXT IN DIGITAL SERVICE

- Press the numeric or $P \land \lor$ (or (PR + or P + -)) button to select a certain service which broadcasts digital teletext.
- Press the TEXT or coloured button to switch on teletext.
- Follow the indications on digital teletext and move onto the next step by pressing OK, $\land \lor \lt >$, RED, GREEN, YELLOW, BLUE or NUMBER buttons and so on.
- Press the **TEXT** or colour button to switch off digital teletext and return to TV viewing.

Some services may allow you to access text services by pressing the **RED** button.



APPENDIX

Initializing (Reset to original factory settings)

This function operates in current mode. To initialize the adjusted value.

When the Lock System menu is "On", the message to enter the password appears.





Select **OPTION**.

Select Factory Reset.

• In Lock System "On", if you forget your password, press '7', '7', '7', '7' on the remote control handset.

- Press the MENU button to return to normal TV viewing.
- Press the RETURN button to move to the previous menu screen.

TROUBLESHOOTING

The TV does not operate properly.							
The remote control does not work	 Check to see if there is any object between the TV and the remote control causing an obstruction. Ensure you are pointing the remote control directly at the TV. Ensure that the batteries are installed with correct polarity (+ to +, - to -). Ensure that the correct remote operating mode is set: TV, VCR etc. Install new batteries. 						
Power is suddenly turned off	 Is the sleep timer set? Check the power control settings. Has the Power supply been interrupted. Is Auto sleep activated on this station? 						

The video function does	The video function does not work.						
No picture &No sound	 Check whether the TV is switched on. Try another channel. The problem may be with the broadcast. Is the power cord inserted correctly into the mains? Check your antenna direction and/or location. Test the mains outlet by plugging another TV into the same outlet. 						
Picture appears slowly after switching on	This is normal, the image is muted during the TV startup process. Please contact your service centre, if the picture has not appeared after five minutes.						
No or poor colour or poor picture	 Adjust Colour in menu option. Allow a sufficient distance between the TV and the VCR. Try another channel. The problem may be with the broadcast. Are the video cables installed properly? Activate any function to restore the brightness of the picture. 						
Horizontal/vertical bars or picture shaking	Check for local interference such as an electrical appliance or power tool.						
Poor reception on some channels	 Station or cable channel experiencing problems, tune to another station. Station signal is weak, reposition the antenna to receive weaker stations. Check for sources of possible interference. 						
Lines or streaks in pictures	Check antenna (Change the position of the antenna).						
No picture when connecting HDMI	Check HDMI cable over version 1.3. If the HDMI cables don't support HDMI version 1.3, it can cause flickers or no screen display. In this case use the latest cables that support HDMI version 1.3.						

APPENDIX

The audio function does	The audio function does not work.					
Picture OK & No sound	 Press the VOLUME button. Sound muted? Press MUTE button. Try another channel. The problem may be with the broadcast. Are the audio cables installed properly? 					
No output from one of the speakers	Adjust Balance in menu option.					
Unusual sound from inside the TV	A change in ambient humidity or temperature may result in an unusual noise when the TV is switched on or off and does not indicate a fault with the TV.					
No sound when connecting HDMI or USB	 Check HDMI cable over version 1.3. Check USB cable over version 2.0. *This feature is not available for all models. 					

There is a problem in PC mode. (Only PC mode applied)						
The signal is out of range	Adjust resolution, horizontal frequency or vertical frequency.					
(Invalid format)	Check the input source.					
Vertical bar or stripe on background & Horizontal Noise & Incorrect position	Use Auto configure or adjust clock, phase or H/V position. (Option)					
Screen colour is unstable or single colour	Check the signal cable.Reinstall the PC video card.					

MAINTENANCE

Early malfunctions can be prevented. Careful and regular cleaning can prolong the life of your new TV.

Caution: Be sure to switch the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

A good way to keep the dust off your screen for a while is to wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it is almost dry, and then use it to wipe the screen.

Ensure there is no excess water on the screen. Allow any water or dampness to evaporate before switching on.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth.Do not to use a wet cloth.

Extended Absence

CAUTION

▶ If you expect to leave your TV dormant for prolonged periods (such as a holiday), unplug the power cord to protect against possible damage from lightning or power surges.

APPENDIX

PRODUCT SPECIFICATIONS

МС	DDELS	42PG10** 42PG1000-ZA	50PG10** 50PG1000-ZA	42PG30** 42PG3000-ZA	
		1040.0 x 720.0 x 708.0 mm	1224 7 4 840 0 4 764 0 mm	1070 E v 726 0 v 7076 mm	
Dimensions (Width x Height x Depth)	with stand	41.0 x 28.7 x 12.2 inches	48.3 x 33.5 x 14.4 inches	41.0 x 28.6 x 12.1 inches	
	without stand	1040.0 x 677.0 x 84.0 mm 41.0 x 26.7 x 3.3 inches	1224.7 x 790.0 x 83.6 mm 48.3 x 31.1 x 3.3 inches	1039.5 x 673.7 x 84.0 mm 41.0 x 26.6 x 3.3 inches	
Weight	with stand without stand	26.6 kg / 58.7 lbs 24.6 kg / 54.3 lbs	41.5 kg / 91.5 lbs 38.1 kg / 84.0 lbs	28.0 kg / 61.8 lbs 25.0 kg / 55.1 lbs	
Power requirement Power Consumption		AC100-240V~ 50/60Hz 3.1A 310W	AC100-240V~ 50/60Hz 4.2A 420W	AC100-240V~ 50/60Hz 3.1A 310W	
		50PG30**	42PG20**	50PG20**	
MIC	JUELS	50PG3000-ZA	42PG2000-ZA	50PG2000-ZA	
Dimensions (Width x Height x Depth)	with stand	1232.0 x 850.0 x 363.6 mm 48.5 x 33.5 x 14.4 inches	1040 x 731.3 x 308 mm 40.9x 28.7 x 12.1 inches	1224.7 x 849 x 364 mm 48.2 x 33.4x 14.3inches	
	without stand	1232.0 x 793.0 x 84.0 mm 48.5 x 31.2 x 3.3 inches	1040 x 677 x 86 mm 40.9 x 26.6 x 3.4 inches	1224.7 x 790 x 86 mm 48.2x 31.1 x 3.4 inches	
Weight	with stand without stand	42.3 kg / 93.3 lbs 38.3 kg / 84.5 lbs	27.3 kg / 60.1 lbs 24.4 kg / 53.8 lbs	41.8 kg / 92.2 lbs 37.8kg / 83.3lbs	
Power requirement Power Consumption		AC100-240V~ 50/60Hz 4.2A 420W	AC100-240V~ 50/60Hz 3.1A 310W	AC100-240V~ 50/60Hz 4.2A 420W	
		60PG30**	19LS4D*	22LS4D*	
, with		60PG3000-ZA	19LS4D-ZD	22LS4D-ZD	
Dimensions (Width x Height x Depth)	with stand	1468 x 1009.1 x 413.9 mm 57.8 x 39.7 x 16.3 inches	456.8x 396.6x 172.0 mm 18.0 x 15.6 x 6.8 inches	525.4 x 441.7x 187.4 mm 20.7 x 17.4 x 7.3 inches	
	without stand	1468 x 949.5 x 88.5 mm 57.8 x 37.4 x 3.5 inches	456.8 x 368.5 x 70.5 mm 18.0 x 14.5 x 2.8 inches	525.4 x 413x 68.6 mm 20.7 x 16.3 x 2.7 inches	
Weight	with stand without stand	80.6 kg / 177.7 lbs 72.6 kg / 160.1 lbs	5.1 kg / 11.3 lbs 4.6 kg / 10.2 lbs	6.1 kg / 13.5 lbs 5.7 kg / 12.6 lbs	
Power requirement Power Consumption		AC100-240V~ 50/60Hz 5.6A 560W	AC100-240V~ 50/60Hz 0.8A 50W	AC100-240V~ 50/60Hz 1.0A 60W	
Television System Programme Coverage External Antenna Impec	lance	PAL/ VHF: E2 ~ E12, UI	SECAM B/G/D/K, PAL I/II, SE HF: E21 ~ E69, CATV: S1 ~ S 75 Ω	CAM L/Ľ 20, HYPER: S21 ~ S47	
	Operating Temperature Operating Humidity		0 ~ 40°C / 32 ~ 104°F Less than 80%		
	Storage Temperature Storage Humidity		-20 ~ 60°C / -4 ~ 140°I Less than 85%	=	

The specifications shown above may be changed without prior notice for quality improvement.

MODELS		19LG30**	22LG30**	26LG30**	
		19LG3000-ZA	22LG3000-ZA	26LG3000-ZA	
Dimensions	with stand	458.8 x 391.0 x 189.2 mm	522.2 x 431.5 x 189.0 mm	663.3 x 508.2 x 227.3 mm	
(Width x Height x Depth)		18.1 x 15.4 x 7.5 inches	20.6 x 17.0 x 7.5 inches	26.1 x 20.1 x 9.0 inches	
	without stand	458.8 x 344.5 x 69.0 mm 18.1 x 13.6 x 2.7 inches	522.2 x 384.2 x 69.0 mm 20.6 x 15.2 x 2.7 inches	663.3 x 449.8 x 80.0 mm 26.1 x 17.8 x 3.2 inches	
Weight	with stand	5.02 kg / 11.1 lbs	5.6 kg / 12.4 lbs	10.1 kg / 22.3 lbs	
	without stand	4.76 kg / 10.5 lbs	5.34 kg / 11.8 lbs	8.6 kg / 19.0 lbs	
Power requirement		AC100-240V~ 50/60Hz 0.8A	AC100-240V~ 50/60Hz 0.9A	AC100-240V~ 50/60Hz 1.2A	
Power Consumption		50W	55W	120W	
MODELS		32LG30**	37LG30**	42LG30**	
		32LG3000-ZA	37LG3000-ZA	42LG3000-ZA	
Dimensions	with stand	801.8 x 604.2 x 227.3 mm	919.6 x 682.3 x 293.8 mm	1032.8 x 742.3 x 293.8 mm	
(Width x Height x Depth)		31.6 x 23.8 x 9.0 inches	36.2 x 26.9 x 11.6 inches	40.7 x 29.3 x 11.6 inches	
	without stand	801.8 x 544.1 x 79.0 mm 31.6 x 21.5 x 3.2 inches	919.6 x 610.3 x 89.0 mm 36.2 x 24.0 x 3.5 inches	1032.8 x 670.1 x 92.0 mm 40.7 x 26.4 x 3.7 inches	
Weight	with stand	13.4 kg / 29.6 lbs	18.8 kg / 41.5 lbs	23.6 kg / 52.1 lbs	
	without stand	11.9 kg / 26.3 lbs	16.2 kg / 35.7 lbs	21.0 kg / 46.3 lbs	
Power requirement		AC100-240V~ 50/60Hz 1.5A	AC100-240V~ 50/60Hz 1.8A	AC100-240V~ 50/60Hz 2.3A	
Power Consumption		150W	180W	230W	
Television System		PAL/SECAM B/G/D/K, PAL I/II, SECAM L/Ľ			
Programme Coverage		VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47			
External Antenna Impedance		75 Ω			
	Operating Temperature Operating Humidity	0 ~ 40°C / 32 ~ 104°F Less than 80%			
Environment condition	Storage Temperature Storage Humidity		-20 ~ 60°C / -4 ~ 140°F Less than 85%		

The specifications shown above may be changed without prior notice for quality improvement.

APPENDIX

		32LG50** 37LG50**			42LG50**			
MODELS		32LG5000-ZA 32LG5010-ZD 32LG5020-ZB 32LG5030-ZE	37LG5(37LG5(37LG5(37LG5(000-ZA 010-ZD 020-ZB 030-ZE	42LG5000-ZA 42LG5010-ZD 42LG5020-ZB 42LG5030-ZE			
Dimensions (Width x Height x Depth)	with stand	813.8 x 598.8 x 231.9 mm 32.1 x 23.6 x 9.2 inches	936.4 x 685. 36.9 x 27.0	4 x 293.4 mm x 11.6 inches	1032.0 x 894.8 x 293.8 mm 40.7 x 35.3 x 11.6 inches			
	without stand	813.8 x 540.4 x 95.5 mm 32.1 x 21.3 x 3.8 inches	936.4 x 612.8 x 88.0 mm 36.9 x 24.2 x 3.5 inches		1032.0 x 662.3 x 89.0 mm 40.7 x 26.1 x 3.5 inches			
Weight	with stand without stand	14.1 kg / 31.1 lbs 12.6 kg / 27.8 lbs	18.3 kg , 15.6 kg ,	/ 40.4 lbs / 34.4 lbs	26.2 kg / 57.8 lbs 23.5 kg / 51.8 lbs			
Power requirement Power Consumption		AC100-240V~ 50/60Hz 1.5A 150W	AC100-240V~ 18	50/60Hz 1.8A 0W	AC100-240V~ 50/60Hz 2.3A 230W			
		47LG50**		52LG50**				
МС	DDELS	47LG5000-Z/ 47LG5010-ZE 47LG5020-ZE 47LG5030-ZE	A) 3 E	52LG5000-ZA 52LG5010-ZD 52LG5020-ZB 52LG5030-ZE				
Dimensions (Width x Height x Depth)	with stand	1156.2 x 813.1 x 342 45.6 x 32.0 x 13.5 ii	9 mm 1291.7 iches 50.9		7 x 892.17 x 342.9 mm 9 x 35.2 x 13.5 inches			
	without stand	1156.2 x 739.2 x 103 45.6 x 29.1 x 4.1 ir	.0 mm iches	1291 50.1	.7 x 817.0 x 115.3 mm 9 x 32.2 x 4.6 inches			
Weight	with stand without stand	29.2 kg / 64.4 lt 24.6 kg / 54.3 lt	os os	39.5 kg / 87.1 lbs 34.9 kg / 77.0 lbs				
Power requirement Power Consumption		AC100-240V~ 50/60 300W	Hz 3.0A	AC100-240V~ 50/60Hz 3.3A 330W				
Television System		PAL/SECAM B/G/D/K, PAL I/II, SECAM L/Ľ						
Programme Coverage		VHF: E2 ~ E12, UHF: E21 ~ E69, CATV: S1 ~ S20, HYPER: S21 ~ S47						
External Antenna Impedance		75 Ω						
Environment condition	Operating Temperature Operating Humidity	0 ~ 40°C / 32 ~ 104°F Less than 80%						
	Storage Temperature Storage Humidity	-20 ~ 60°C / -4 ~ 140°F Less than 85%						

The specifications shown above may be changed without prior notice for quality improvement.

PROGRAMMING THE REMOTE CONTROL

(Only 19/22/26/32/37/42LG30**, 32/37/42/47/52LG50**)

The remote control is a multi brand or universal remote. It can be programmed. to operate most remote controlled devices from other manufacturers.

Note that the remote control may not control all models from other brands.

Programming a code into a remote mode



Testing your remote control.

To find out whether your remote control can operate other components without programming, turn on a component such as a STB and press the corresponding mode button (such as a **STB**) on the remote control, while pointing at the component. Test the POWER and $P \land \lor$ buttons to see if the component responds correctly. If the component does not operate correctly, the remote control requires programming to operate the device.



Switch on the component to be programmed, then press the corresponding mode button (such as **STB**) on the remote control. The remote control button of the desired device is illumintated.

Press the MENU and MUTE buttons simultaneously, the remote control is ready to be programmed with the code.

Enter a code number using the number buttons on the remote control. Programming code numbers for the corresponding component can be found on the following pages. If the code is correct, the device will turn off.



Press the **MENU** button to store the code.



APPENDIX

HDSTB

Brand	Code	es			Brand	Code	es			Brand	Code	es		
ALPHASTAR DSR	123				HOUSTON TRACKER	033	037	039	051	PROSAT	072			
AMPLICA	050					057	104			RCA	066	106		
BIRDVIEW	051	126	129		HUGHES	068				REALISTIC	043	074		
CHANNEL MASTER	013	014	015	018	JANIEL	060	147			SAMSUNG	123			
	036	055			JERROLD	061				SATELLITE SERVICE CO	028	035	047	057
CHAPARRAL	008	009	012	077	KATHREIN	108					085			
CITOH	054				LEGEND	057				SCIENTIFIC ATLANTA	032	138		
CURTIS MATHES	050	145			LG	001				SONY	103			
DRAKE	005	006	007	010	LUTRON	132				STARCAST	041			
	011	052	112	116	LUXOR	062	144			SUPER GUIDE	020	124	125	
	141				MACOM	010	059	063	064	TEECOM	023	026	075	087
DX ANTENNA	024	046	056	076		065					088	090	107	130
ECHOSTAR	038	040	057	058	MEMOREX	057					137			
	093	094	095	096	NEXTWAVE	028	124	125		TOSHIBA	002	127		
	097	098	099	100	NORSAT	069	070			UNIDEN	016	025	042	043
	122				PACE SKY SATELLITE	143					044	045	048	049
ELECTRO HOME	089				PANASONIC	060	142				078	079	080	086
EUROPLUS	114				PANSAT	121					10	135	136	
FUJITSU	017	021	022	027	PERSONAL CABLE	117				VIEWSTAR	115			
	133	134			PHILIPS	071				WINEGARD	128	146		
GENERAL INSTRUMEN	T 003	004	016	029	PICO	105				ZENITH	081	082	083	084
	031	059	101		PRESIDENT	019	102				091	120		
HITACHI	139	140			PRIMESTAR	030	110	111						
IR CODES

1. How to Connect

Connect your wired remote control to the Remote Control port on the TV.

2. Remote Control IR Codes

Output waveform

Single pulse, modulated with 37.917KHz signal at 455KHz





Configuration of frame

1 st frame



Repeat frame



Lead code



Repeat code



Bit description



Frame interval: Tf

The waveform is transmitted as long as a key is depressed.



Code (Hexa)	Function	Note
08	POWER	R/C BUTTON (POWER ON/OFF)
OB	INPUT	R/C BUTTON
FO	TV/RADIO	R/C BUTTON
45	Q.MENU	R/C BUTTON
43	MENU	R/C BUTTON
AB	GUIDE	R/C BUTTON
07	Left (< or ◀)	R/C BUTTON
06	Right (>or ►)	R/C BUTTON
40	Up (∧or ▲)	R/C BUTTON
41	Down (∨or ▼)	R/C BUTTON
44	OK()	R/C BUTTON
28	RETURN	R/C BUTTON
AA	INFO ①	R/C BUTTON
	AV MODE	R/C BUTTON
02	VOL + (or ⊿ +)	R/C BUTTON
03	VOL - (or ⊿ -)	R/C BUTTON
00	$P \land (or (PR + or P +))$	R/C BUTTON
01	<u> P ∽ (or (PR - or P -))</u>	R/C BUTTON
1E	FAV	R/C BUTTON
09	MUTE	R/C BUTTON
10 ~19	Number Key 0~9	R/C BUTTON
53	LIST	R/C BUTTON
1A	Q.VIEW	R/C BUTTON
72	RED Key	R/C BUTTON
71	GREEN Key	R/C BUTTON
63	YELLOW Key	R/C BUTTON
61	BLUE Key	R/C BUTTON
20	TEXT	R/C BUTTON
21	T.Option	R/C BUTTON
39	SUBTITLE	R/C BUTTON
BD	●(Record)	R/C BUTTON
<u>7E</u>	SIMPLINK	R/C BUTTON
79	RATIO	R/C BUTTON
0A	1/11	R/C BUTTON
OE	SLEEP	R/C BUTTON
26		K/C BUITON
<u>2A</u>	<u>KEVEAL</u>	K/C BUITON
50		K/C BUITON
62		
65	HOLD	K/C BUITON
/0	INDEX	K/C BUTTON

EXTERNAL CONTROL DEVICE SETUP

RS-232C Setup

Connect the RS-232C (serial port) input jack to an external control device (such as a computer or an A/V control system) to control the TV's functions externally.

Connect the serial port of the control device to the RS-232C jack on the TV back panel.

Note: RS-232C connection cables are not supplied with the TV.



Type of Connector; D-Sub 9-Pin Male

No.	Pin Name	
1	No connection	
2	RXD (Receive data)	0—
3	TXD (Transmit data)	
4	DTR (DTE side ready)	
5	GND	
6	DSR (DCE side ready)	
7	RTS (Ready to send)	6—
8	CTS (Clear to send)	
9	No Connection	



RS-232C Configurations

7-Wire Co	nfigurations	(Standard RS-	232C cable)
	РС	TV	
RXD	2 📖	3	TXD
TXD	3 👞	<u> </u>	RXD
GND	5 👞	— 5	GND
DTR	4 •	— 6	DSR
DSR	6 •	• 4	DTR
RTS	7 •	• 8	CTS
CTS	8 •	• 7	RTS
	D-Sub 9	D-Sub 9	

3-W	3-Wire Configurations(Not standard)					
	PC	TV				
RXD	2 •	• 3	TXD			
TXD	3 •	• 2	RXD			
GND	5 •	• 5	GND			
DTR	4	6	DTR			
DSR	6	4	DSR			
RTS	7	7	RTS			
CTS	8	8	CTS			
	D-Sub 9	D-Sub 9				

Set ID

Use this function to specify a set ID number. Refer to 'Real Data Mapping'. ► p.114





Select OPTION.

Select Set ID.

adjust **Set ID** to choose the desired TV ID number. The adjustment range of SET ID is $1 \sim 99$.

• Press the RETURN button to move to the previous menu screen.

Communication Parameters

- Baud rate : 9600 bps (UART)
- Data length : 8 bits
- ■Parity : None

Stop bit : 1 bit
Communication code : ASCII code
Use a crossed (reverse) cable.

Command Reference List

	COMMAND 1	COMMAND 2	DATA (Hexadecimal)
01. Power	k	а	00 ~ 01
02. Aspect Ratio	k	с	Refer to p. 112
03. Screen Mute	k	d	00 ~ 01
04. Volume Mute	k	е	00 ~ 01
05. Volume Control	k	f	00 ~ 64
06. Contrast	k	g	00 ~ 64
07. Brightness	k	h	00 ~ 64
08. Colour	k	i	00 ~ 64
09. Tint	k	j	00 ~ 64
10. Sharpness	k	k	00 ~ 64
11. OSD Select	k	<u> </u>	00 ~ 01
12. Remote control lock n	node k	m	00 ~ 01
13. Balance	k	t	00 ~ 64
14. Colour Temperature	k	u	00 ~ 02
15. Abnormal Status	k	Z	00 ~ 09
16. ISM Method	j	р	Refer to p. 114
17. Power Saving	j	q	00 ~ 04
18. Auto Configure	j	u	01
19. Equalize	j	v	Refer to p. 114
20. Tune Command	m	а	Refer to p. 114
21. Channel Add/Skip	m	b	00 ~ 01
22. Key	m	с	Key Code
23. Control Back Ligh	t m	g	00 ~ 64
24. Input select (Mair	ı) x	b	Refer to p. 115

 \ast When setting the 15 \sim 24, a menu does not appear on screen.

Transmission / Receiving Protocol Transmission [Command1][Command2][][Set ID][][Data][Cr] * [Command 1] : First command to control the TV. (j, k, m or x) * [Command 2] : Second command to control the TV. * [Set ID] : You can adjust the set ID to choose desired monitor ID number in option menu. Adjustment range is 1 ~ 99. When selecting Set ID '0', every connected set is controlled. Set ID is indicated as decimal (1~99) on menu and as Hexa decimal (0x0~0x63) on transmission/ receiving protocol. * [DATA] : To transmit command data. Transmit 'FF' data to read status of command. * [Cr] : Carriage Return ASCII code '0x0D' : ASCII code 'space (0x20)' * []

OK Acknowledgement

[Command2][][Set ID][][OK][Data][x]

* The TV transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Command2][][Set ID][][NG][Data][x]

* The TV transmits ACK (acknowledgement) based on this format when receiving abnormal data from nonviable functions or communication errors.

- 01. Power (Command: k a)
- ► To control Power On/Off of the TV.

Transmission

[k][a][][Set ID][][Data][Cr]

Data 00 : Power Off 01 : Power On *Ack*

[a][][Set ID][][OK/NG][Data][x]

► To show Power On/Off.

Transmission

[k][a][][Set ID][][FF][Cr]

Ack

[a][][Set ID][][OK/NG][Data][x]

- * Similarly, if other functions transmit '0xFF' data based on this format, Acknowledgement data feed back presents status about each function.
- * OK Ack. ,Error Ack. and other message maybe display on the screen when TV is power On.

02. Aspect Ratio (Command: k c) (Main Picture Size)

To adjust the screen format. (Main picture format) You can also adjust the screen format using the Aspect Ratio in the Q.MENU. or PICTURE menu.

Transmission

[k][c][][Set ID][][Data][Cr]

Data	01 : Normal screen (4:3)	06 : Original
	02 : Wide screen (16:9)	07 · 14·9
	04 : Zoom1	
	05 : Zoom2	09 : Just Scan

Ack

[c][][Set ID][][OK/NG][Data][x]

- * Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.
- * In HDMI/Component (over 720p) mode, Just Scan is available.
- You can only select Original in UK digital teletext (MHEG-5).

03. Screen Mute (Command: k d)

To select screen mute on/off.

Transmission

[k][d][][Set ID][][Data][Cr]

Data 00 : Screen mute off (Picture on) 01 : Screen mute on (Picture off)

Ack

[d][][Set ID][][OK/NG][Data][x]

04. Volume Mute (Command: k e)

To control volume mute on/off. You can also adjust mute using the MUTE button on remote control.

Transmission

[k][e][][Set ID][][Data][Cr]

- Data 00 : Volume mute on (Volume off) 01 : Volume mute off (Volume on)
- Ack

[e][][Set ID][][OK/NG][Data][x]

05. Volume Control (Command: k f)

To adjust volume. You can also adjust volume with the VOLUME buttons on remote control.

Transmission

[k][f][][Set ID][][Data][Cr]

- Data Min : 00 ~ Max : 64
 - * Refer to 'Real data mapping 1'. See page 114.

Ack

[f][][Set ID][][OK/NG][Data][x]

06. Contrast (Command: k g)

To adjust screen contrast. You can also adjust contrast in the PICTURE menu. Transmission

[k][g][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64 * Refer to 'Real data mapping 1'. See page 114.

Ack

[g][][Set ID][][OK/NG][Data][x]

07. Brightness (Command: k h)

To adjust screen brightness. You can also adjust brightness in the PICTURE menu.

Transmission

[k][h][][Set ID][][Data][Cr]

- Data Min : 00 ~ Max : 64
 - * Refer to 'Real data mapping 1'. See page 114.
- Ack
- [h][][Set ID][][OK/NG][Data][x]

08. Colour (Command: k i)

To adjust the screen colour. You can also adjust colour in the PICTURE menu.

Transmission

[k][i][][Set ID][][Data][Cr]

Data Min: 00 ~ Max: 64

- * Refer to 'Real data mapping 1'. See page 114.
- Ack

[i][][Set ID][][OK/NG][Data][x]

09. Tint (Command: k j)

To adjust the screen tint. You can also adjust tint in the PICTURE menu.

Transmission

[k][j][][Set ID][][Data][Cr]

Data Red : 00 ~ Green : 64

* Refer to 'Real data mapping 1'. See page 114. Ack

[j][][Set ID][][OK/NG][Data][x]

10. Sharpness (Command: k k)

To adjust the screen sharpness. You can also adjust sharpness in the PICTURE menu. Transmission

[k][k][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64

* Refer to 'Real data mapping 1'. See page 114.

Ack

[k][][Set ID][][OK/NG][Data][x]

11. OSD Select (Command: k l)

To select OSD (On Screen Display) on/off when controlling remotely.

Transmission

[k][l][][Set ID][][Data][Cr]

Data 00 : OSD off 01 : OSD on

Ack

[l][][Set ID][][OK/NG][Data][x]

12. Remote control lock mode (Command: k m)

To lock the front panel controls on the monitor and remote control.

01 : Lock on

Transmission

[k][m][][Set ID][][Data][Cr]

Data 00 : Lock off

Ack

[m][][Set ID][][OK/NG][Data][x]

* If you are not using the remote control, use this mode. When main power is on/off, external control lock is released.

13. Balance (Command: k t)

► To adjust balance.

You can also adjust balance in the AUDIO menu. *Transmission*

[k][t][][Set ID][][Data][Cr]

Data Min : 00 ~ Max : 64 * Refer to 'Real data mapping 1'. See page 114.

Ack

[t][][Set ID][][OK/NG][Data][x]

14. Colour Temperature (Command: k u)

► To adjust colour temperature. You can also adjust Colour Temperature in the PICTURE menu.

Transmission

[k][u][][Set ID][][Data][Cr]

Data 00: Medium 01: Cool 02: Warm Ack

[u][][Set ID][][OK/NG][Data][x]

15. Abnormal State (Command: k z)

To recognize an abnormal state. Transmission

[k][z][][Set ID][][FF][][Cr]

Data FF : Read

Ack

[z][][Set ID][][OK/NG][Data][x]

- Data 00: Normal (Power on and signal exist)
 - 01: No signal (Power on)
 - 02: Turn the monitor off by remote control
 - 03: Turn the monitor off by sleep time function
 - 04: Turn the monitor off by RS-232C function
 - 05: 5V down 06: AC down
 - . AC down . Turn the monitor off by Fan Alar
 - 07: Turn the monitor off by Fan Alarm function 08: Turn the monitor off by Off time function
 - 09: Turn the monitor off by Auto sleep function
 - a: Turn the monitor off by AV Board detect

* This function is "read only".

16. ISM Method (Plasma TV only) (Command: j p)

 To control the ISM method. You can also adjust ISM Method in OPTION menu.

Transmission

[j][p][][Set ID][][Data][Cr]

Data 01: Inversion

- 02: Orbiter
 - 04: White wash
 - 08: Normal

Ack

[p][][Set ID][][OK/NG][Data][x]

17. Power Saving (Plasma TV only) (Command: j q)

To reduce the power consumption of the TV. You can also adjust Low Power in OPTION menu.

Transmission

[j][q][][Set ID][][Data][Cr]

Data Min :00 ~ Max :04 (*transmit by hexadecimal code)

Ack

[q][][Set ID][][OK/NG][Data][x]

18. Auto Configure (Command: j u)

► To adjust picture position and minimize image shaking automatically. It works only in RGB (PC) mode.

Transmission

[j][u][][Set ID][][Data][Cr]

Data 01: To set

Ack

[u][][Set ID][][OK/NG][Data][x]

* Real data mapping 1	* Real data mapping 2
00 : Step 0	00:-40
A : Step 10 (Set ID 10)	02 :-38
F : Step 15 (Set ID 15) 10 : Step 16 (Set ID 16)	28 :0
64: Step 100	4E : +38
6E: Step 110	4F : +39 50 : +40
73 : Step 115 74 : Step 116	
C7: Step 199	
FE : Step 254 FF : Step 255	

19. Equalize (Command : j v)

► To adjust equalize.

Transmission



3

4



1.2kHz

3kHz

5 7.5kHz 6 12kHz Step (Frequency data):

Refer to 'Real data mápping 3'. See page 115.

Ack

[v][][Set ID][][OK/NG][Data][x]

* Euqalize command expression

7	6	5	4	3	2	1	0	Frequency
0	0	0						120Hz
0	0	1						200Hz
0	1	0						500Hz
0	1	1						1.2KHz
1	0	0						3KHz
1	0	1						7.5KHz
1	1	0						12KHz

				Step			OSD	
7	6	5	4	3	2	1	0	Value
			0	0	0	0	0	-24
			0	1	1	1	1	0
			1	1	1	1	1	24

Ex) If you wish to set frequency 500Hz and -20 value on menu OSD, refer to 'Real data mapping 3' and then find Step value for -20.

find Step value for -20. 010 (500Hz) 00011 (Step 3) => 01000011 => 43 (Hexadecimal) : [j][v][][Set ID][][43][Cr]

* 3 bits of Frequency and 5 bits of Step makes 8 bits (1 byte). Change 8 bits to Hexadecimal code.

20. Tune Command (Command: m a)

Select channel to following physical number. Transmission

[m][a][][Set ID][][Data0][][Data1][][Data2][Cr]

Data 00 : High channel data Data 01 : Low channel data ex. No. 47 -> 00 2F (2FH) No. 394 -> 01 88 (188H), DTV No. 0 -> Don't care Data 02 : 0x00 : ATV, 0x10 : DTV, 0x20 : Radio

Channel data range Analogue - Min: 00 ~ Max: 63 (0~99) Digital - Min: 00 ~ Max: 3E7 (0~999)

Ack

[a][][Set ID][][OK/NG][Data][x]

Data Min: 00 ~ Max: 7DH

21. Channel Add/Skip (Command: m b)

To set skip status for the current Programme. Transmission

[m][b][][Set ID][][Data][Cr] Data 00 : Skip 01 : Add

Ack

[b][][Set ID][][OK/NG][Data][x]

22. Key (Command : m c)

To send IR remote key code. Transmission

[m][c][][Set ID][][Data][Cr] Data Key code - Refer to page 108.

Ack

[c][][Set ID][][OK/NG][Data][x]

23. Control Back Light (LCD TV only) (Command: m g)

To Cont rol t he back light.

Transmission

[m][g][][Set ID][][Data][Cr]

Data : Min: 00 ~ Max: 64 (*transmit by hexadecimal code)

Ack

[g][][Set ID][][OK/NG][Data][x]

24. Input select (Command: x b) (Main Picture Input)

► To select input source for main picture.

Transmission

N

[x][b][][Set ID][][Data][Cr]

Data Structure

1SB							LSB
0	0	0	0	0	0	0	0
L	xterna	al Inpi	Jt J	L _{Ir}	nput N	lumbe	er 🔟

E	xterna	al Inpu	ıt	Data
0	0	0	0	DTV
0	0	0	1	Analogue
0	0	1	0	AV
0	1	0	0	Component
0	1	1	0	RGB
1	0	0	1	HDMI

lı	nput N	lumbe	er	Data
0	0	0	0	Input1
0	0	0	1	Input2
0	0	1	0	Input3

Ack

[b][][Set ID][][OK/NG][Data][x]

* Real data mapping 3 (Equalize)	
Step: OSD	Step: OSD
00 : -24	16 : 1
01 : -23	17 : 3
02 : -21	18 : 4
03 : -20	19 : 6
04 : -18	20 : 7
05 : -16	21 : 9
06 : -15	22 : 10
07 : -13	23 : 12
08 : -12	24 : 13
09 : -10	25 : 15
10 : -8	26 : 16
11 : -7	27 : 18
12 : -5	28 : 19
13 : -4	29 : 21
14 : -2	30 : 22
15 : 0	31 : 24

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